

Attorney's Docket No. 005699-512

Application No.: 10/043,659

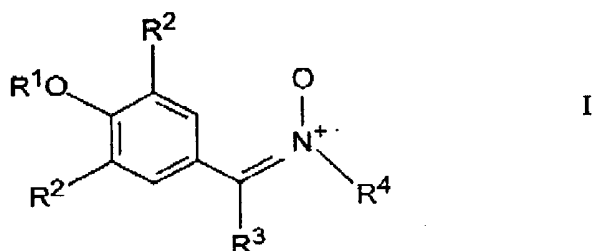
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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

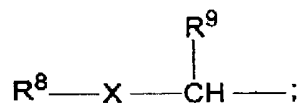
LISTING OF CLAIMS:

Claim 1 (Currently Amended): A method for treating neuropathic pain in a patient comprising administering an effective neuropathic pain-treating dose of a pharmaceutical composition comprising a compound of formula I:

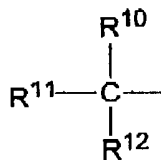


wherein

R¹ is



each R² is independently selected from a group of the formula:



R³ is selected from the group consisting of hydrogen, alkyl, cycloalkyl and aryl;

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R^4 is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl and substituted cycloalkenyl;

R^8 is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl and substituted cycloalkenyl;

R^9 is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl and substituted cycloalkenyl; or R^8 and R^9 can be joined to form an alkylene or substituted alkylene group having from 2 to 10 carbon atoms;

R^{10} is selected from the group consisting of hydrogen, lower alkyl and lower cycloalkyl; or R^1 and R^{10} can be joined to form an alkylene, substituted alkylene, $-C(O)-$, $-S(O)-$ or $-S(O)_2-$ group;

R^{11} and R^{12} are independently selected from the group consisting of lower alkyl and lower cycloalkyl; or R^{11} and R^{12} can be joined to form an alkylene group having from 2 to 10 carbon atoms; and

X is oxygen, sulfur, $-S(O)-$ or $-S(O)_2-$, and

W is oxygen or sulfur; or a pharmaceutically-acceptable salt thereof.

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Claim 2 (Currently Amended): The method of Claim 1 wherein ~~W~~ X is oxygen.

Claim 3 (Original): The method of Claim 2 wherein R^3 is hydrogen or lower alkyl.

Claim 4 (Original): The method of Claim 3 wherein R^3 is hydrogen.

Claim 5 (Original): The method of Claim 4 wherein R^4 is selected from the group consisting of alkyl, substituted alkyl and cycloalkyl.

Claim 6 (Original): The method of Claim 5 wherein R^4 is selected from the group consisting of methyl, *n*-propyl, isopropyl, 1-hydroxy-2-methylprop-2-yl, *n*-butyl, *tert*-butyl, 3-thiomethylpropyl, 3-(thiomethoxy)but-1-yl, cyclohexyl, 4-trifluoromethylbenzyl and 3,4,5-trimethoxybenzyl.

Claims 7 (Canceled).

Claim 8 (Canceled).

Claim 9 (Canceled).

Claim 10 (Canceled).

Claim 11 (Original): The method of Claim 4 wherein X is oxygen; R^9 is hydrogen; and R^8 is alkyl or alkoxyalkyl.

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Claim 12 (Original): The method of Claim 11 wherein R^8 is selected from the group consisting of methyl and methoxyethyl.

Claim 13 (Original): The method of Claim 4 wherein R^{10} , R^{11} and R^{12} are methyl.

Claim 14 (Previously Presented): The method of Claim 13 wherein R^{10} , R^{11} and R^{12} are methyl.

Claims 15 (Canceled).

Claim 16 (Canceled).

Claim 17 (Canceled).

Claim 18 (Canceled).

Claim 19 (Canceled).

Claim 20 (Canceled).

Claim 21 (Canceled).

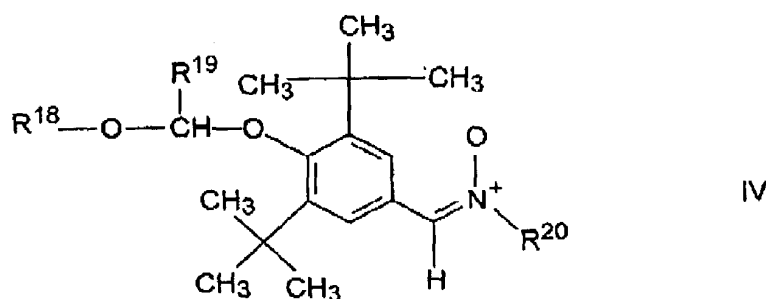
Claim 22 (Canceled).

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Claim 23 (Amended) The method of Claim 1 wherein the compound is of formula

IV:



wherein

R¹⁸ is selected from the group consisting of alkyl, substituted alkyl, cycloalkyl and substituted cycloalkyl;

R¹⁹ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, cycloalkyl and substituted cycloalkyl; or R¹⁸ and R¹⁹ can be joined to form an alkylene or substituted alkylene group having from 2 to 10 carbon atoms;

R²⁰ is selected from the group consisting of alkyl, substituted alkyl, cycloalkyl and substituted cycloalkyl; or pharmaceutically-acceptable salts thereof.

Claim 24 (Original): The method of Claim 23 wherein R¹⁹ is hydrogen and R¹⁸ is alkyl or alkoxyalkyl.

Claim 25 (Original): The method of Claim 24 wherein R¹⁸ is methyl or methoxyethyl.

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Claim 26 (Original): The method of Claim 23 wherein R²⁰ is selected from the group consisting of alkyl, substituted alkyl and cycloalkyl.

Claim 27 (Original): The method of Claim 26 wherein R²⁰ is selected from the group consisting of methyl, *n*-propyl, isopropyl, 1-hydroxy-2-methylprop-2-yl, *n*-butyl, *tert*-butyl, 3-thiomethylpropyl, 3-(thiomethoxy)but-1-yl, cyclohexyl, 4-trifluoromethylbenzyl and 3,4,5-trimethoxybenzyl.

Claim 28 (Currently Amended): The method of Claim 1 wherein the compound is selected from the group consisting of:

α -(4-isobutanoyloxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-butylnitrone

α -(4-*n*-butanoyloxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-butylnitrone

α -(4-*n*-pentanoyloxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-butylnitrone

α -(4-propionoyloxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-butylnitrone

α -(4-acetoxy-3,5-di-*tert*-butylphenyl)-*N*-3,4,5-trimethoxybenzylnitrone

α -[4-(ethylaminocarbonyloxy)-3,5-di-*tert*-butylphenyl]-*N*-*tert*-butylnitrone

α -[4-(*n*-propylaminocarbonyloxy)-3,5-di-*tert*-butylphenyl]-*N*-*tert*-butylnitrone

α -[4-(*n*-butylaminocarbonyloxy)-3,5-di-*tert*-butylphenyl]-*N*-*tert*-butylnitrone

α -[4-(2-ethoxycarbonyl)ethylaminocarbonyloxy)-3,5-di-*tert*-butylphenyl]-*N*-*tert*-butylnitrone

α -[4-(2-ethoxycarbonyl)methylaminocarbonyloxy)-3,5-di-*tert*-butylphenyl]-*N*-*tert*-butylnitrone

α -(4-methoxymethoxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-butylnitrone

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α -[4-(2-methoxy)ethoxymethoxy-3,5-di-*tert*-butylphenyl]-*N*-*tert*-butylnitronone
 α -(4-methoxymethoxy-3,5-di-*tert*-butylphenyl)-*N*-3-(thiomethoxy)but-1-ynitronone
 α -(4-methoxymethoxy-3,5-di-*tert*-butylphenyl)-*N*-3-thiomethoxypropylnitronone
 ~~α -(4-hydroxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-butylnitronone~~
 ~~α -(4-hydroxy-3,5-di-*tert*-butylphenyl)-*N*-*tert*-octylnitronone~~
 ~~α -(4-hydroxy-3,5-dimethoxyphenyl)-*N*-*tert*-butylnitronone~~
 ~~α -(4-hydroxy-3,5-dimethylphenyl)-*N*-hexylnitronone~~
 ~~α -(4-hydroxy-3,5-dimethylphenyl)-*N*-*tert*-butylnitronone~~
 ~~α -(4-hydroxy-3,5-di-*tert*-butylphenyl)-*N*-(1,1-dimethyl-2-hydroxyethyl)nitronone~~
 ~~α -(4-hydroxy-3,5-di-*tert*-butylphenyl)-*N*-(1,1-dimethylpropyl)nitronone~~
 ~~α -(4-hydroxy-3,5-di-*tert*-butylphenyl)-*N*-(1-methylethyl)nitronone~~
and pharmaceutically acceptable salts thereof.

Claim 29 (Canceled).

Claim 30 (Canceled).

Claim 31 (Canceled).

Claim 32 (Canceled).

Claim 33 (Canceled).

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Claim 34 (Canceled).

Claim 35 (Canceled).